

ABSTRACT OF THE DISCLOSURE

The torque detection device for a wave gearing comprises a strain gauge unit having a strain gauge pattern. The strain gauge pattern includes circular-arc shaped detection segments A and B, and three terminal portions for external wiring with one being formed between the detection segments and the others at opposite ends thereof. The strain gauge unit having the strain gauge pattern can be mounted on the diaphragm of a flexible external gear by a simple operation of positioning the strain gauge unit on the diaphragm and connecting the three terminal portions to the external wirings. Compared to the case where a large number of perpendicular biaxial strain gauges are positioned and wired to form a bridge circuit, the wiring operation can be simplified, the mounting space can be reduced, and errors in detected signals due to the positioning errors of the strain gauges can also be reduced.